

Serial Number: 10/098,600BCRF Processing Date: 10/16/02

Edited by:

Verified by: DC (STIC staff)

2590

100x

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Inserted the first digit, "1," in amino number 1105 in Seq. 16

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIIPE

RAW SEQUENCE LISTING

DATE: 10/16/2002 *P/b*

PATENT APPLICATION: US/10/098,600B

TIME: 11:41:52

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\10162002\J098600B.raw

5 <110> APPLICANT: Messier, Walter
7 Sikela, James M
11 <120> TITLE OF INVENTION: Methods to Identify Polynucleotide and Polypeptide
13 Sequences Which May Be Associated with Physiological
15 and Medical Conditions
19 <130> FILE REFERENCE: GENO2002CIP2
C--> 23 <140> CURRENT APPLICATION NUMBER: US/10/098,600B
C--> 25 <141> CURRENT FILING DATE: 2002-09-30
29 <150> PRIOR APPLICATION NUMBER: 09/591,435
31 <151> PRIOR FILING DATE: 2000-06-09
35 <150> PRIOR APPLICATION NUMBER: 09/240,915
37 <151> PRIOR FILING DATE: 1999-01-29
41 <150> PRIOR APPLICATION NUMBER: 60/073,263
43 <151> PRIOR FILING DATE: 1998-01-30
47 <150> PRIOR APPLICATION NUMBER: 60/098,987
49 <151> PRIOR FILING DATE: 1998-09-02
53 <150> PRIOR APPLICATION NUMBER: 09/942,252
55 <151> PRIOR FILING DATE: 2001-08-28
59 <160> NUMBER OF SEQ ID NOS: 36
63 <170> SOFTWARE: PatentIn Ver. 2.0
67 <210> SEQ ID NO: 1
69 <211> LENGTH: 1518
71 <212> TYPE: DNA
73 <213> ORGANISM: Homo sapiens
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83 tgcagcacct cctgtgacca gcccaagttg ttgggcatag agaccccggt gcctaaaaag 120
87 gagttgctcc tgccctggaa caaccggaag gtgtatgaac tgagcaatgt gcaagaagat 180
91 agccaaccaa tgtgtatttc aaactgccct gatgggcagt caacagctaa aaccttcctc 240
95 accgtgtact ggactccaga acgggtggaa ctggcacccc tcccccttg gcagccagtg 300
99 ggcaagaacc ttaccctacg ctgccaggtg gaggggtggg caccgccggc caacctcacc 360
103 gtggtgctgc tccgtgggga gaaggagctg aaacgggagc cagctgtggg ggagcccgct 420
107 gaggtcacga ccacggtgct ggtgaggaga gatcaccatg gagccaattt ctctgcccgc 480
111 actgaactgg acctgcggcc ccaagggctg gagctgtttg agaacacctc ggccccctac 540
115 cagctccaga cctttgtcct gccagcgact cccccacaac ttgtcagccc ccgggtccta 600
119 gaggtggaca cgcaggggac cgtggtctgt tccctggacg ggctgttccc agtctcggag 660
123 gccaggtcc acctggcact gggggaccag aggttgaacc ccacagtcac ctatggcaac 720
127 gactccttct cgccaaggc ctcagtcagt gtgaccgcag aggacgaggg caccagcgg 780
131 ctgacgtgtg cagtaatact ggggaaccag agccaggaga cactgcagac agtgaccatc 840
135 tacagctttc cggcgccccaa cgtgattctg acgaagccag aggtctcaga agggaccgag 900
139 gtgacagtga agtgtgaggc ccaccctaga gccaaagtga cgctgaatgg ggttccagcc 960
143 cagccactgg gcccgagggc ccagctcctg ctgaaggcca ccccagagga caacgggcgc 1020
147 agcttctcct gctctgcaac cctggaggtg gccggccagc ttatacacia gaaccagacc 1080

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Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\10162002\J098600B.raw

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159 gagctcaagt gtctaaagga tggcactttc ccactgccca tcggggaatc agtgactgtc 1260
163 actcgagatc ttgagggcac ctacctctgt cgggccagga gcactcaagg ggaggtcacc 1320
167 cgcgaggtga ccgtgaatgt gctctccccc cggtatgaga ttgtcatcat cactgtggta 1380
171 gcagccgcag tcataatggg cactgcaggc ctcagcacgt acctctataa ccgccagcgg 1440
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191 <213> ORGANISM: Pan troglodytes
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197 <221> NAME/KEY: CDS
199 <222> LOCATION: (1)..(1518)
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209 1 5 10 15
213 gtg cag gtg aca tgc agc acc tcc tgt gac cag ccc gac ttg ttg ggc 96
215 Val Gln Val Thr Cys Ser Thr Ser Cys Asp Gln Pro Asp Leu Leu Gly
217 20 25 30
221 ata gag acc ccg ttg cct aaa aag gag ttg ctt ctg ggt ggg aac aac 144
223 Ile Glu Thr Pro Leu Pro Lys Lys Glu Leu Leu Leu Gly Gly Asn Asn
225 35 40 45
229 tgg aag gtg tat gaa ctg agc aat gtg caa gaa gat agc caa cca atg 192
231 Trp Lys Val Tyr Glu Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met
233 50 55 60
237 tgc tat tca aac tgc cct gat ggg cag tca aca gct aaa acc ttc ctc 240
239 Cys Tyr Ser Asn Cys Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu
241 65 70 75 80
245 acc gtg tac tgg act cca gaa cgg gtg gaa ctg gca ccc ctc ccc tct 288
247 Thr Val Tyr Trp Thr Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser
249 85 90 95
253 tgg cag cca gtg ggc aag gac ctt acc cta cgc tgc cag gtg gag ggt 336
255 Trp Gln Pro Val Gly Lys Asp Leu Thr Leu Arg Cys Gln Val Glu Gly
257 100 105 110
261 ggg gca ccc cgg gcc aac ctc acc gtg gtg ctg ctc cgt ggg gag aag 384
263 Gly Ala Pro Arg Ala Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys
265 115 120 125
269 gag ctg aaa cgg gag cca gct gtg ggg gag ccc gct gag gtc acg acc 432
271 Glu Leu Lys Arg Glu Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr
273 130 135 140
277 acg gtg ctg gtg gag aga gat cac cat gga gcc aat ttc tcg tgc cgc 480
279 Thr Val Leu Val Glu Arg Asp His His Gly Ala Asn Phe Ser Cys Arg
281 145 150 155 160
285 act gaa ctg gac ctg cgg ccc caa ggg ctg cag ctg ttt gag aac acc 528
287 Thr Glu Leu Asp Leu Arg Pro Gln Gly Leu Gln Leu Phe Glu Asn Thr
289 165 170 175
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Input Set : A:\PTO.DC.txt

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293	tcg	gcc	ccc	cac	cag	ctc	caa	acc	ttt	gtc	ctg	cca	gcg	act	ccc	cca	576
295	Ser	Ala	Pro	His	Gln	Leu	Gln	Thr	Phe	Val	Leu	Pro	Ala	Thr	Pro	Pro	
297				180					185					190			
301	caa	ctt	gtc	agc	ccc	cgg	gtc	cta	gag	gtg	gac	acg	cag	ggg	acc	gtg	624
303	Gln	Leu	Val	Ser	Pro	Arg	Val	Leu	Glu	Val	Asp	Thr	Gln	Gly	Thr	Val	
305			195					200					205				
309	gtc	tgt	tcc	ctg	gac	ggg	ctg	ttc	cca	gtc	tcg	gag	gcc	cag	gtc	cac	672
311	Val	Cys	Ser	Leu	Asp	Gly	Leu	Phe	Pro	Val	Ser	Glu	Ala	Gln	Val	His	
313		210					215						220				
317	ctg	gca	ctg	ggg	gac	cag	agg	ttg	aac	ccc	aca	gtc	acc	tat	ggc	aat	720
319	Leu	Ala	Leu	Gly	Asp	Gln	Arg	Leu	Asn	Pro	Thr	Val	Thr	Tyr	Gly	Asn	
321	225				230						235				240		
325	gac	tcc	ttc	tcg	gcc	aag	gcc	tca	gtc	agt	gtg	acc	gca	gag	gac	gag	768
327	Asp	Ser	Phe	Ser	Ala	Lys	Ala	Ser	Val	Ser	Val	Thr	Ala	Glu	Asp	Glu	
329				245						250				255			
333	ggc	acc	cag	cgg	ctg	acg	tgt	gca	gta	ata	ctg	ggg	aac	cag	agc	cgg	816
335	Gly	Thr	Gln	Arg	Leu	Thr	Cys	Ala	Val	Ile	Leu	Gly	Asn	Gln	Ser	Arg	
337			260					265					270				
341	gag	aca	ctg	cag	aca	gtg	acc	atc	tac	agc	ttt	ccg	gcg	ccc	aac	gtg	864
343	Glu	Thr	Leu	Gln	Thr	Val	Thr	Ile	Tyr	Ser	Phe	Pro	Ala	Pro	Asn	Val	
345			275					280					285				
349	att	ctg	acg	aag	cca	gag	gtc	tca	gaa	ggg	acc	gag	gtg	aca	gtg	aag	912
351	Ile	Leu	Thr	Lys	Pro	Glu	Val	Ser	Glu	Gly	Thr	Glu	Val	Thr	Val	Lys	
353		290				295					300						
357	tgt	gag	gcc	cac	cct	aga	gcc	aag	gtg	acg	ctg	aat	ggg	gtt	cca	gcc	960
359	Cys	Glu	Ala	His	Pro	Arg	Ala	Lys	Val	Thr	Leu	Asn	Gly	Val	Pro	Ala	
361	305				310						315				320		
365	cag	cca	gtg	ggc	ccg	agg	gtc	cag	ctc	ctg	ctg	aag	gcc	acc	cca	gag	1008
367	Gln	Pro	Val	Gly	Pro	Arg	Val	Gln	Leu	Leu	Leu	Lys	Ala	Thr	Pro	Glu	
369				325						330				335			
373	gac	aac	ggg	cgc	agc	ttc	tcc	tgc	tct	gca	acc	ctg	gag	gtg	gcc	ggc	1056
375	Asp	Asn	Gly	Arg	Ser	Phe	Ser	Cys	Ser	Ala	Thr	Leu	Glu	Val	Ala	Gly	
377			340					345					350				
381	cag	ctt	ata	cac	aag	aac	cag	acc	cgg	gag	ctt	cgt	gtc	ctg	tat	ggc	1104
383	Gln	Leu	Ile	His	Lys	Asn	Gln	Thr	Arg	Glu	Leu	Arg	Val	Leu	Tyr	Gly	
385		355				360						365					
389	ccc	cga	ctg	gac	gag	agg	gat	tgt	ccg	gga	aac	tgg	acg	tgg	cca	gaa	1152
391	Pro	Arg	Leu	Asp	Glu	Arg	Asp	Cys	Pro	Gly	Asn	Trp	Thr	Trp	Pro	Glu	
393		370				375					380						
397	aat	tcc	cag	cag	act	cca	atg	tgc	cag	gct	tcg	ggg	aac	cca	ttg	ccc	1200
399	Asn	Ser	Gln	Gln	Thr	Pro	Met	Cys	Gln	Ala	Ser	Gly	Asn	Pro	Leu	Pro	
401	385				390						395				400		
405	gag	ctc	aag	tgt	cta	aag	gat	ggc	act	ttc	cca	ctg	ccc	gtc	ggg	gaa	1248
407	Glu	Leu	Lys	Cys	Leu	Lys	Asp	Gly	Thr	Phe	Pro	Leu	Pro	Val	Gly	Glu	
409			405					410					415				
413	tca	gtg	act	gtc	act	cga	gat	ctt	gag	ggc	acc	tac	ctc	tgt	cgg	gcc	1296
415	Ser	Val	Thr	Val	Thr	Arg	Asp	Leu	Glu	Gly	Thr	Tyr	Leu	Cys	Arg	Ala	
417			420					425					430				
421	agg	agc	act	caa	ggg	gag	gtc	acc	cgc	aag	gtg	acc	gtg	aat	gtg	ctc	1344

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/098,600B

DATE: 10/16/2002

TIME: 11:41:52

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Output Set: N:\CRF4\10162002\J098600B.raw

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429 tcc ccc cgg tat gag att gtc atc atc act gtg gta gca gcc gca gtc 1392
431 Ser Pro Arg Tyr Glu Ile Val Ile Ile Thr Val Val Ala Ala Ala Val
433      450      455      460
437 ata atg ggc act gca ggc ctc agc acg tac ctc tat aac cgc cag cgg 1440
439 Ile Met Gly Thr Ala Gly Leu Ser Thr Tyr Leu Tyr Asn Arg Gln Arg
441 465      470      475      480
445 aag atc agg aaa tac aga cta caa cag gct caa aaa ggg acc ccc atg 1488
447 Lys Ile Arg Lys Tyr Arg Leu Gln Gln Ala Gln Lys Gly Thr Pro Met
449      485      490      495
453 aaa ccg aac aca caa gcc acg cct ccc tga 1518
455 Lys Pro Asn Thr Gln Ala Thr Pro Pro
457      500      505
463 <210> SEQ ID NO: 3
465 <211> LENGTH: 505
467 <212> TYPE: PRT
469 <213> ORGANISM: Pan troglodytes
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483      20      25      30
487 Ile Glu Thr Pro Leu Pro Lys Lys Glu Leu Leu Leu Gly Gly Asn Asn
489      35      40      45
493 Trp Lys Val Tyr Glu Leu Ser Asn Val Gln Glu Asp Ser Gln Pro Met
495      50      55      60
499 Cys Tyr Ser Asn Cys Pro Asp Gly Gln Ser Thr Ala Lys Thr Phe Leu
501 65      70      75      80
505 Thr Val Tyr Trp Thr Pro Glu Arg Val Glu Leu Ala Pro Leu Pro Ser
507      85      90      95
511 Trp Gln Pro Val Gly Lys Asp Leu Thr Leu Arg Cys Gln Val Glu Gly
513      100      105      110
517 Gly Ala Pro Arg Ala Asn Leu Thr Val Val Leu Leu Arg Gly Glu Lys
519      115      120      125
523 Glu Leu Lys Arg Glu Pro Ala Val Gly Glu Pro Ala Glu Val Thr Thr
525      130      135      140
529 Thr Val Leu Val Glu Arg Asp His His Gly Ala Asn Phe Ser Cys Arg
531 145      150      155      160
535 Thr Glu Leu Asp Leu Arg Pro Gln Gly Leu Gln Leu Phe Glu Asn Thr
537      165      170      175
541 Ser Ala Pro His Gln Leu Gln Thr Phe Val Leu Pro Ala Thr Pro Pro
543      180      185      190
547 Gln Leu Val Ser Pro Arg Val Leu Glu Val Asp Thr Gln Gly Thr Val
549      195      200      205
553 Val Cys Ser Leu Asp Gly Leu Phe Pro Val Ser Glu Ala Gln Val His
555      210      215      220
559 Leu Ala Leu Gly Asp Gln Arg Leu Asn Pro Thr Val Thr Tyr Gly Asn
561 225      230      235      240
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/098,600B

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Input Set : A:\PTO.DC.txt

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565 Asp Ser Phe Ser Ala Lys Ala Ser Val Ser Val Thr Ala Glu Asp Glu
567 245 250 255
571 Gly Thr Gln Arg Leu Thr Cys Ala Val Ile Leu Gly Asn Gln Ser Arg
573 260 265 270
577 Glu Thr Leu Gln Thr Val Thr Ile Tyr Ser Phe Pro Ala Pro Asn Val
579 275 280 285
583 Ile Leu Thr Lys Pro Glu Val Ser Glu Gly Thr Glu Val Thr Val Lys
585 290 295 300
589 Cys Glu Ala His Pro Arg Ala Lys Val Thr Leu Asn Gly Val Pro Ala
591 305 310 315 320
595 Gln Pro Val Gly Pro Arg Val Gln Leu Leu Leu Lys Ala Thr Pro Glu
597 325 330 335
601 Asp Asn Gly Arg Ser Phe Ser Cys Ser Ala Thr Leu Glu Val Ala Gly
603 340 345 350
607 Gln Leu Ile His Lys Asn Gln Thr Arg Glu Leu Arg Val Leu Tyr Gly
609 355 360 365
613 Pro Arg Leu Asp Glu Arg Asp Cys Pro Gly Asn Trp Thr Trp Pro Glu
615 370 375 380
619 Asn Ser Gln Gln Thr Pro Met Cys Gln Ala Ser Gly Asn Pro Leu Pro
621 385 390 395 400
625 Glu Leu Lys Cys Leu Lys Asp Gly Thr Phe Pro Leu Pro Val Gly Glu
627 405 410 415
631 Ser Val Thr Val Thr Arg Asp Leu Glu Gly Thr Tyr Leu Cys Arg Ala
633 420 425 430
637 Arg Ser Thr Gln Gly Glu Val Thr Arg Lys Val Thr Val Asn Val Leu
639 435 440 445
643 Ser Pro Arg Tyr Glu Ile Val Ile Ile Thr Val Val Ala Ala Val
645 450 455 460
649 Ile Met Gly Thr Ala Gly Leu Ser Thr Tyr Leu Tyr Asn Arg Gln Arg
651 465 470 475 480
655 Lys Ile Arg Lys Tyr Arg Leu Gln Gln Ala Gln Lys Gly Thr Pro Met
657 485 490 495
661 Lys Pro Asn Thr Gln Ala Thr Pro Pro
663 500 505
669 <210> SEQ ID NO: 4
671 <211> LENGTH: 1515
673 <212> TYPE: DNA
675 <213> ORGANISM: Gorilla gorilla
679 <400> SEQUENCE: 4
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685 tgcagcacct cctgtgacca gccaccttg ttgggcatag agaccccggt gcctaaaaag 120
689 gagttgctcc tgcttgggaa caaccagaag gtgtatgaac tgagcaatgt gcaagaagat 180
693 agccaaccaa tgtgttattc aaactgccct gatgggcagt caacagctaa aaccttcctc 240
697 accgtgtact ggactccaga acgggtggaa ctggcacccc tcccctcttg gcagccagtg 300
701 ggcaaggacc ttacctacg ctgccaggtg gaggggtggg caccocgggc caacctcatc 360
705 gtggtgctgc tccgtgggga ggaggagctg aaacgggagc cagctgtggg ggagcccggc 420
709 gaggtcacga ccacggtgcc ggtggagaaa gatcaccatg gagccaattt cttgtgccgc 480
713 actgaactgg acctgcggcc ccaagggtg aagctgtttg agaacacctc ggccccctac 540
717 cagctccaaa ctttgtcct gccagcgact cccccacaac ttgtcagccc tcgggtccta 600

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/098,600B

DATE: 10/16/2002
TIME: 11:41:53

Input Set : A:\PTO.DC.txt
Output Set: N:\CRF4\10162002\J098600B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:32; Xaa Pos. 71

Seq#:33; Xaa Pos. 71

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41
Seq#:1; Line(s) 43,45,47,49,51,53,55,57,59,61,63,65,67,69,71,73,75,77,79,81
Seq#:1; Line(s) 83,85,87,89,91,93,95,97,99,101,103,105,107,109,111,113,115
Seq#:1; Line(s) 117,119,121,123,125,127,129,131,133,135,137,139,141,143,145
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Seq#:1; Line(s) 177,179,181,183,185
Seq#:2; Line(s) 187,189,191,193,195,197,199,201,203,205,207,209,211,213,215
Seq#:2; Line(s) 217,219,221,223,225,227,229,231,233,235,237,239,241,243,245
Seq#:2; Line(s) 247,249,251,253,255,257,259,261,263,265,267,269,271,273,275
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Seq#:4; Line(s) 671,673,675,677,679,681,683,685,687,689,691,693,695,697,699
Seq#:4; Line(s) 701,703,705,707,709,711,713,715,717,719,721,723,725,727,729
Seq#:4; Line(s) 731,733,735,737,739,741,743,745,747,749,751,753,755,757,759
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Seq#:5; Line(s) 789,791,793,795,797,799,801,803,805,807,809,811,813,815,817
Seq#:5; Line(s) 819,821,823,825,827,829,831,833,835,837,839,841,843,845,847
Seq#:5; Line(s) 849,851,853,855,857,859,861,863,865,867,869,871,873,875,877
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Seq#:6; Line(s) 937,939,941,943,945,947,949,951,953,955,957,959,961,963,965
Seq#:6; Line(s) 967,969,971,973,975,977,979,981,983,985,987,989,991,993,995
Seq#:6; Line(s) 997,999,1001,1003,1005,1007,1009,1011,1013,1015,1017,1019
Seq#:6; Line(s) 1021,1023,1025,1027,1029,1031,1033,1035,1037,1039,1041,1043
Seq#:6; Line(s) 1045,1047,1049,1051,1053,1055,1057,1059,1061,1063,1065,1067

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/098,600B

DATE: 10/16/2002

TIME: 11:41:53

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF4\10162002\J098600B.raw

L:23 M:270 C: Current Application Number differs, Replaced Application Number

L:25 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:4058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:240

L:4292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:64